ELATION PROFESSIONAL

POWER SPOT 575IE II

User Manual

Software Version 1.17 **Revised**

CONTENTS

1. General Information……3
    a. Introduction……3
    b. Unpacking……..……..…... 3
    c. Customer Support…….…… 3
    d. Warranty Registration……..……4
    e. Discharge Lamp Warning……4
2. Safety Instructions…….....……7
3. Fixture Layout…….....8
4. Mounting and Installation…….…… 11
    a. Mounting Positions…… 11
    b. Mounting Points……12
    c. Securing……..12
5. Understanding DMX……...14
    a. DMX Cable Requirements……..……14
    b. DMX Terminator……16
    c. 3-Pin to 5-Pin Conversion……16
    d. DMX Addressing……16
6. Fixture Menu……18
    a. Menu functions…….. 19
7. Operation.....……..... 28
8. DMX Channel Values……..... 30
9. Lamp Replacement ……...35
10. Fuse Replacement..... 37
11. Replacing Gobos ..……..... 38
12. Maintance and Cleaning……40
13. Technical Specifications……..……42
14. Warranty ……..……..…….....…43
15. Dimensional Drawings……..……..45

1. GENERAL INFORMATION

INTRODUCTION*:* Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The Power Spot 575IE II,™ has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

UNPACKING: Thank you for purchasing the Power Spot 575IE II™ by Elation Professional®. Every Power Spot 575IE II™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below.

CUSTOMER SUPPORT: Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322
Fax: (323) 582-3108
E-mail: support@elationlighting.com
Forum: www.ElationLighting.com/forum

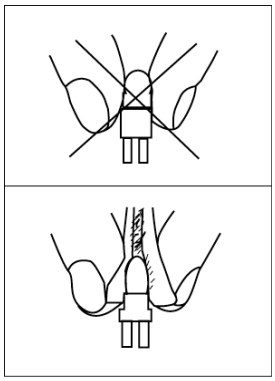
Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs

yourself, doing so will void your manufactures warranty.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

***WARRANTY REGISTRATION**:* The Power Spot 575IE II™ carries a two year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support at (323) 582-3322.



***DISCHARGE LAMP WARNING**:* This fixture is fitted with a discharge lamp, which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare hands, as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamps have had ample time to cool. Remember, lamps are not covered under warranty conditions.

UV RADIATION: This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. Never operate this fixture with the protective covers removed, these covers have been specially designed to shield against UV radiation.

Epileptic Warning: *Those suffering from epilepsy should avoid looking directly into the lamp at all times.*

Avoid switching the fixture on and off repeatedly in short intervals, as this will reduce lamp

life and intensity.

To achieve the intensity associated with discharge lamps, these lamps use a gas sealed in a high-pressure environment to emit a brilliant output. Due to the high pressure involved with the construction of the lamp, the lamp may explode during prolonged extensive use. This risk is increased with age; added care is encouraged when dealing with older lamps. Thus, lamp should always be replaced at the end of their recommended duty cycle. Extreme caution should be used when operated this or any fixture fitted with a gas discharge lamp.

Never open this fixture while in use!

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

This device falls under protection-class 1. Therefore it is essential that the device be grounded properly.

All electrical connections must performed by qualified personal.

Be sure the power cord is never crimped or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.Always disconnect from main power before performing any type of service or any cleaning procedure. Only handle the power cord by the plug. Never pull out the plug by tugging the wire portion of the cord.

Please be aware that damages caused by manual modifications to the device are not subject to warranty.

2. SAFETY INSTRUCTIONS

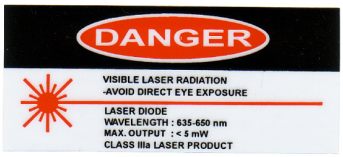
The Power Spot 575IE II™ is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

1. Always be sure that the fan and the air inlets remain clean and are never blocked. Allow about 6” (15cm) between this fixture and other devices or a wall to allow for proper cooling.
2. Never touch the fixture during normal operation. This can cause severe personal injuries and/or damage to the fixture.
3. Be sure to unplug the Power Spot 575IE II™ from the power outlet before performing any service related issues.
4. Lamp Replacement; Allow at least 30 minutes after disconnecting main power before you open the Power Spot 575IE II™. To prevent personal injury, never touch the lamp if you are not absolutely sure it has cooled.
5. Never look directly into the lamp beam. You risk injury to your retina, which may induce blindness.
6. Be sure to track and record the lamp running time. The lamp should be changed at the end of the specified lamp life, regardless of lamp output. You may also have to change the lamp if it shows any deformations or damage. The same is with all glass components, color filters, lenses and mirrors.
7. For safe operation, follow the Installation guide described in chapter two of this manual. Operating the Power Spot 575IE II™ without suited safety aids such as safety cables or clamps can increase the risk of damage and/or personal injury.
8. Installation should only be performed by qualified and certified personal.
9. When mounting this fixture, use only the original rigging parts included with this

fixture. Any structural modification will void the original manufactures warranty and may increase the risk of damage and/or personal injury.

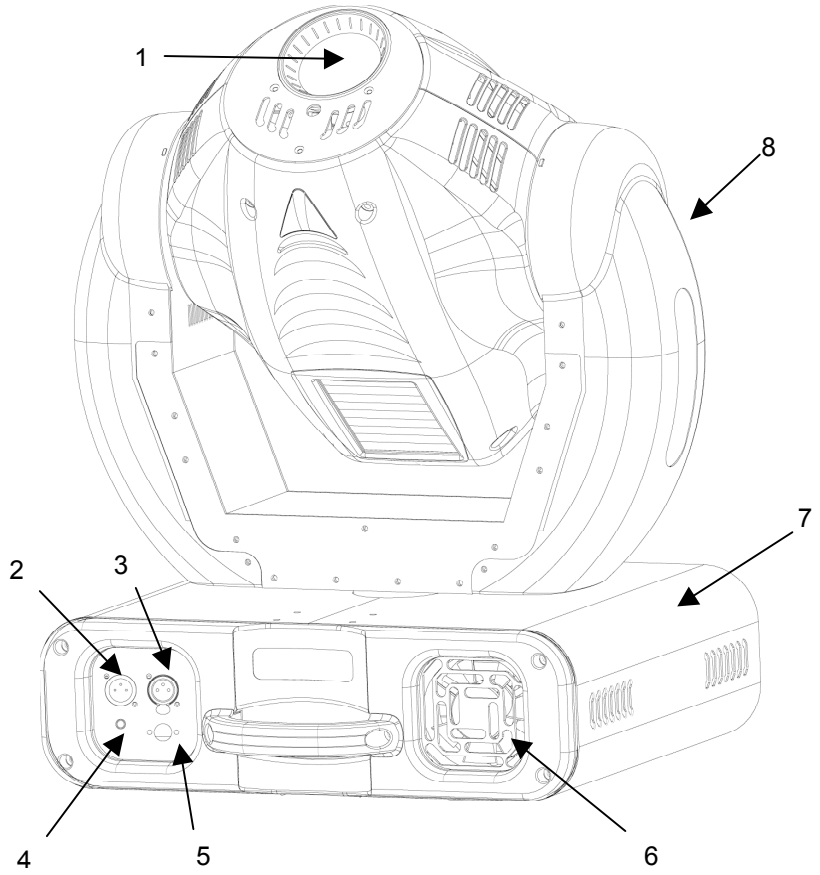
10. To reduce the risk of fire or shock, do not expose this fixture to rain or moisture.
11. Do not attempt to operate this fixture if the power cord has become damaged or frayed.

Important Notice: *Damages resulting from the disregard of safety and general user instructions found in this user manual are not subject to any warranty claims.*



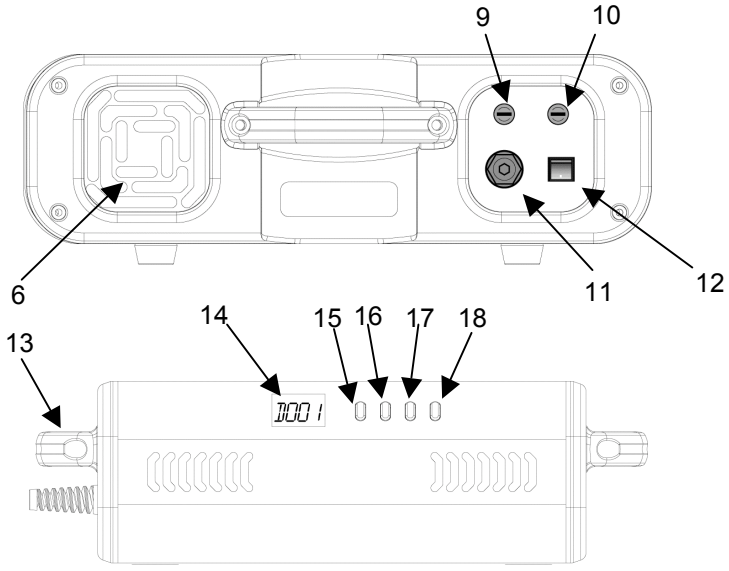
Attention: Lasers of class 3R may injure your retina after a short residence time even without any optical instrument. **Avoid any direct exposure of your eyes!**

3. Fixture Layout



1. Lens Assembly
2. DMX Input Jack
3. DMX Output Jack
4. Microphone Sensitivity Adjustment Knob
5. Firmware Connection
6. Internal Cooling Fan
7. Base
8. Retaining Arm

9. Lamp Fuse Holder
10. Electronics Fuse Holder
11. Powercon Connector
12. Power Switch
13. Carrying Handle
14. 4-Segment Menu Display
15. Mode Select Button
16. Enter Select Button
17. Down Select Button
18. Up Select Button



1. **Lens Assembly -** This high quality lens is a fully focusing. Focus the lens by manually turning the lens in a clockwise or counter-clockwise direction until the desired effect is achieved.

2. **DMX Input Jack –** This 3-Pin XLR jack is used to receive an incoming DMX signal.

3. **DMX Output Jack –** This 3-Pin XLR jack is used to send an outgoing DMX signal. For best results this jack should be terminated if it is the last fixture in a DMX daisy-chain (see termination on page 14).

4. **Microphone Sensitivity Adjustment Knob –** This knob is used to adjust the frequency sensitivity of the internal microphone when operating in “audio” mode. When the knob is turned counter-clockwise the unit is less sensitive to sound. When the knob is turned clockwise the unit is more sensitive sound.

5. **Firmware Connection –** This connection is designed to be used solely by an authorized technician to upgrade the operating software and to test the fixture.

6. **Internal Cooling Fan –** This fixture is equipped with two high-velocity variable speed fans mounted in the base to aid in the cooling process. These fans are designed to vary their velocity at different operating temperatures. When the fixture reaches a predetermined internal operating temperature the fans function at high speeds. The higher speeds provide better cooling associated with higher operating temperatures during long use. When the fixture is operating at a lower temperature the fans operate at low speed. Be sure to keep all vents clean, blocked cooling vents can shorten lamp life and reduce the fixtures reliability. For more information on the fan functions see page 23, section 3.9.7.

7. **Base –** The main base holds the majority of the electronics and logic boards. The base also provides a means to securely mount the fixture to the floor or ceiling.

8. **Retaining Arm –** These arm hold the head in place and provide a means of tilt movement. These arms also provide a conduit for all the electronics traveling from the base to the head.

9. **Lamp Fuse Holder –** This housing holds a 8A/250V GMA fuse. Never defeat this fuse, this fuse is designed to protect the lamp in the event of severer power fluctuations. In the event of fuse failure, always be sure to replace this fuse with an exact match unless otherwise instructed by an authorized Elation technician.
10. **Electronics Fuse Holder –** This housing holds a 1A/250V GMA fuse. Never defeat this fuse, this fuse is designed to protect the electronics in the event of severer power fluctuations. In the event of fuse failure, always be sure to replace this

fuse with an exact match unless otherwise instructed by an authorized Elation technician.

11. **Powercon Connector –** This power jack is designed to be used only with the Neutrik Powercon adapter included with your fixture. This jack provides main power to your fixture.

12. **Power Switch –** The switch is used to control main power to fixture's electronics.

13. **Carrying Handle –** The fixtures includes two built-in carrying handles. Be sure to always handle the fixture by the built-in carrying handles. Never lift or carry the fixture by the head or retaining arms as this could cause serious damage to the fixture and void your manufactures warranty.

14. **4-Segment Menu Display –** This display details menu functions.

15. **Mode Select Button –** This button is used to access the fixture's main system menu and on-board programming functions.

16. **Enter Select Button –** This button is used to select and confirm a menu function when working in the fixture's operating system.

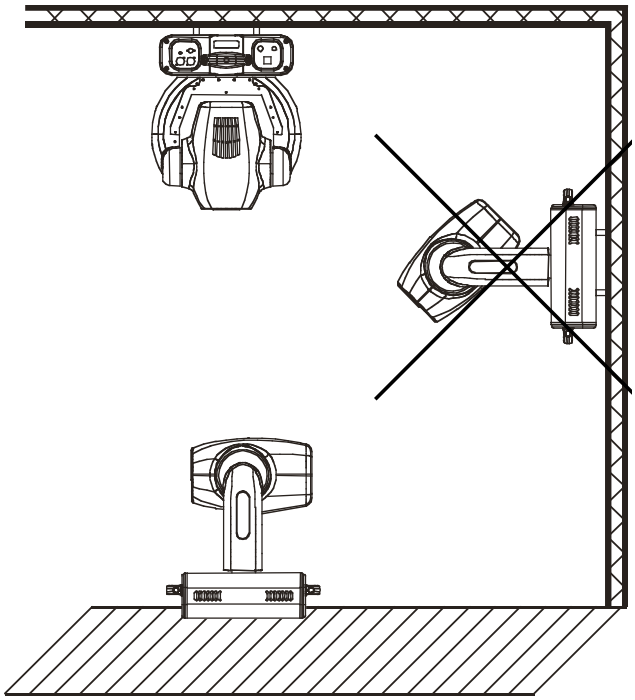
17. **Down Select Button –** This button is used to scroll backwards when navigating through the system menu.

18. **Up Select Button -** This button is used to scroll forward when navigating through the system menu.

4. MOUNTING AND INSTALLATION

Mounting

The POWER SPOT 575IE™ is fully operational in two different mounting positions, hanging upside from a ceiling or set on a flat level surface. To avoid internal damage to the unit, ***never mount the unit on its side*** as illustrated below. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Install a safety cable that can hold at least 10 times the weight of the fixture. Never use the carrying handles for secondary attachment.



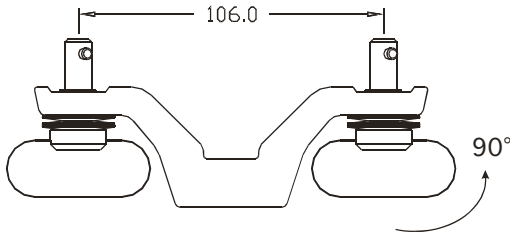
Refer to regulations BGV C1 (formerly VBG 70) and DIN VDE 0711-217 for proper installation in Europe
To ensure proper installation, only qualified staff should attempt installation.

Clamps

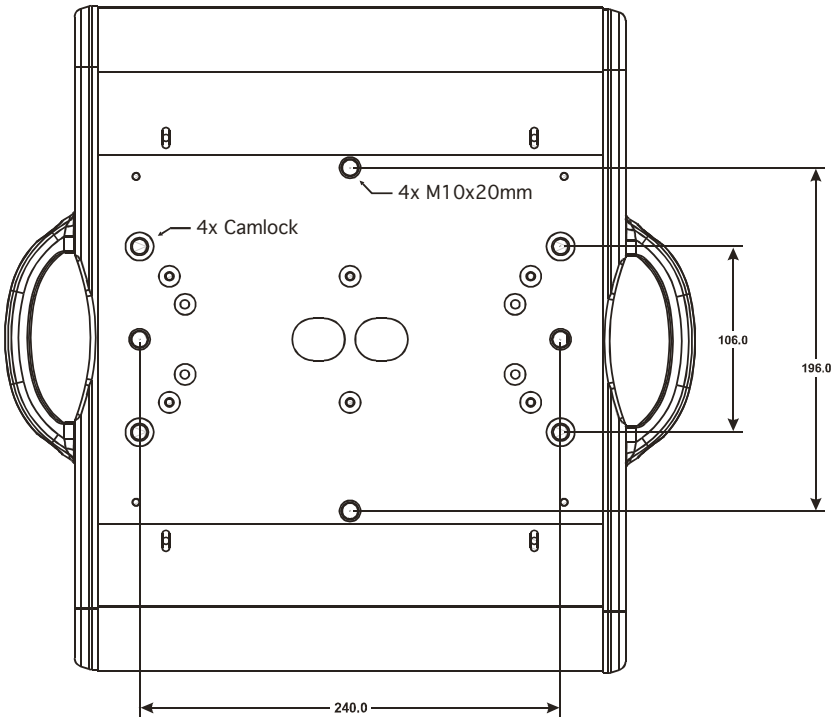
The **POWER SPOT 575IE™** has been designed to hold multiple clamps to the bottom of the unit in several different orientations. Always use an appropriately rated clamp to mount this unit to truss. Refer to the printed instructions on the bottom of the fixture for proper clamp installation.

a) **Cam lock System:** This system allows a quick and efficient means to secure a clamp to the unit. To attach a clamp to the unit, attach a clamp

that is rated to handle the weight of the unit to your cam lock. After a clamp has been attached to the cam lock, attach the cam locks to the designated position on the bottom of your unit. Lock the cam locks into position by turning the wing nuts 90°.



b) Be sure to always use two cam locks mounted to the bottom of unit to ensure safe truss mounting (each two opposite threads max. M10x20).



Secure the POWER SPOT 575IE II™

Regardless of the rigging option you choose for your **POWER SPOT 575IE II™** always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the underside of the fixture, be sure to use this point and never secure a safety cable to a carrying handle.

Connections

Power supply

- Electronic ballast with: 90~260 Volts, 50~60 Hz,
- Grounded contact type plug – Neutrik Powercon
- Connected load 780W <=> 3.8A (blind current compensation).

NOTE: The universal power supply will accept any voltage source as detailed above without any type of internal or user modifications.

DMX-512

3-Pin XLR Input/Output. [+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1

Fuse Requirements

The **POWER SPOT 575IE** electronic and lamp systems are protected by two GMA (5x20mm) external fuses:

Lamp: 250V/8A

Electronics: 250V/1A

The fuse requirements are clearly printed on the side of the fixture.

WARNING:

- **Always disconnect main power before changing the fuse!**
- **Always replace with the exact same type fuse unless otherwise specified by an authorized Elation® service technician. Replacing with anything other than the specified fuse can severely damage your fixture and will void your manufactures warranty.**

Transportation and Handling

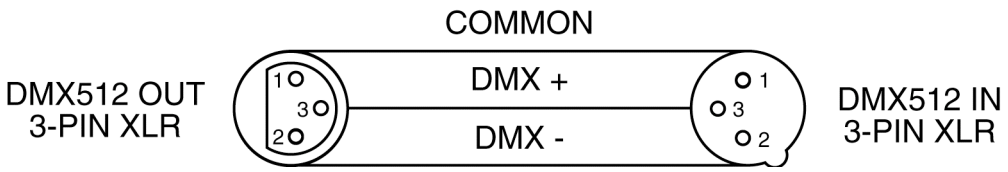
The **POWER SPOT 575IE™** comes with two carrying handles built into the base. Always transport the fixture by these handles. Never lift or carry the **POWER SPOT 575IE™** by the yoke (head assembly) this can seriously damage the unit.

5. UNDERSTANDING DMX

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data "IN" and data "OUT" XLR terminals located on the fixtures (most controllers will only have output jacks).

DMX Linking: To ensure proper DMX data transmission always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a "Y" style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The Power Spot 575IE II™ can be controlled via DMX-512 protocol. The Power Spot 575IE II™ is a 16-channel DMX fixture. The DMX address is set electronically using the controls on the LCD menu.

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation): Your fixture and your DMX controller require a standard 3-pin XLR connector for data input and data output (the figure on the next page is of a 3-Pin XLR connector). If you are making your own cables, be sure to use two conductor shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. Also, remember that a DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.



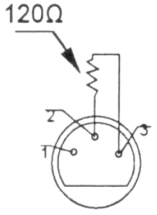
Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

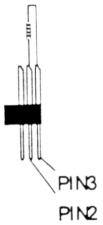
DMX-512 control connection

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple moving heads together through serial linking. The cable needed should be two conductor, shielded cable with XLR input and output connectors. Always be sure daisy chain your in and out data connections, never split or "Y" your DMX connections unless you are using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.

DMX-512 connection with DMX terminator

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a *line terminator (Elation part: DMX T PACK) will decrease the possibilities of erratic behavior.*





Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

Fixture DMX addressing;

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the head of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all you fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Power Spot 575IE II™, which is a 16 channel fixture, you should set the starting DMX address of the first unit to 1, the second unit to 17 (16 + 1), the third unit to 33 (16 + 17), and so on.

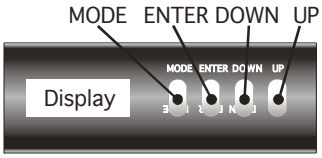
Note: During start-up the Power Spot 575IE II ™ will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show **"A.XXX" (XXX** representing the actual DMX address). If the fixture is not receiving a DMX signal the display will flash **"A.XXX" (XXX** representing the actual DMX address).

If your fixture is connected to a DMX controller and the display is flashing (not receiving a DMX signal), please check the following:

- **The 3 PIN XLR plug (cable with DMX signal from controller) is not connected or is not inserted completely into the DMX input jack.**
- **The DMX controller is switched off or defective.**
- **The DMX cable or connector is defective.**
- **A DMX terminator has been inserted into the last fixture in your DMX chain.**

6. FIXTURE MENU

The control panel located on the side of the fixture allows you to access the main menu and make all necessary adjustments to the **POWER SPOT 575IE II™.** During normal operation, tapping the "**MODE**" key once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **Up** and **Down** buttons. Once you reach a field that requires adjusting, tap the **ENTER** button to activate that field and use the **UP** and **Down** button to adjust the field. Tapping the **Enter** button once more will confirm your setting. Once a setting is saved the LED will briefly readout **OK** to confirm a new setting has been made and locked into memory. You may exit the main menu at any time without making any adjustments by tapping the **MODE** button.



↓ DOWN - UP →

Level 1	Level 2	Level 3	Remark
D001			Define the DMX start address
TEST			Test program of all functions
AUDI	ASLW		Self-running audio program (slow)
	AFST		Self-running audio program (fast)
	MSTR		Master for the audio program
	SVPT		Basic position for the audio program
	SIZE		Size for the audio program (NORM-BIG-MIDL-SMAL)
LAMP			Switch on/of the lamp direct at the **Power Spot 575IE**
RESE			Reset
TIME	POWR		Running time of the fixture (non destructible)
	LA1		Running time of the lamp (erasable)
	LA2		Running time of the lamp (non destructible)
RPAN			Reverse Pan-direction
RTLT			Reverse Tilt-direction
SPEC	MANU		Manual control of all device functions
	LAAU		Automatic lamp start
	DLOF		Switch off lamp via DMX
	DMXI		Reed out actual DMX-values
	DISP	D ON	Display On/Off
		REV	Flip display readout
	TEMP		Displays internal temperature
	FANS	HIGH	Maximum cooling fan velocity
		REG	Automatic cooling fan control
		LOOF	Low cooling fan speed → lamp off
		LOHI	Low cooling fan speed → automatic
	ADJU	CODE	These menu settings are reserved for authorized technician use only and are protected by a user code.
		xxxx	
		COLO	Calibration of the color wheel
		GOB1	Calibration of gobo wheel 1
		GOB2	Calibration of gobo wheel 2
		SHTR	Calibration of the shutter
		PRIS	Calibration of the prism wheel
		IRIS	Calibration of the IRIS
		POFS	Calibration of the pan-offset
		TOFS	Calibration of the tilt-offset

	clre	Clears internal memory (technician only)
	ares	Adjust Reset (wheels static after reset)
	VTIL	Software version, tilt pc-board
	VTR1	Software version, driver board 1
	VTR2	Software version, driver board 2
	VTR3	Software version, driver board 3
DFSE		Call on the default function values
FEED		Pan/Tilt feedback (error correction) On/Off
EFLG		Correction of faults

6.1 Setting/Changing the DMX Address

After applying power to the **POWER SPOT 575IE™** the LED will display the fixture's current DMX address immediately after the reset sequence. If the fixture is not receiving a DMX signal the display will flash continuously.

To set or adjust a DMX address, please follow the procedure below:

1. Switch on the **POWER SPOT 575IE™** and wait for the fixture reset process to finished (**'RESE'** will flash in the LED while fixture is in reset mode).
2. Press the **Mode** button to access the main menu. Toggle through the menu by pressing the **Up** and **Down** buttons until the display shows D001. Tap the enter button to make changes to the address, the current three digit address will immediately begin to flash.
3. While the current three-digit address is flashing, use the **Up** and **Down** buttons to select adjust the address. Lock your new address into the unit's memory by pressing the **Enter** button. After the new address has been successfully stored into the fixture's memory the LED will briefly readout **OK**.

The DMX address is non-destructible and will remain in the fixture's memory even when the power has been switched off. Memory is backed-up and retained by an internal power source with a five year shelf life.

6.2 Test Program

The **Test** Program engages the fixture's internal test mode. This function runs a complete test procedure of all functions. Press **Enter** to launch the self-test or the **Mode** button to cancel and return to the main menu.

6.3 The Audio Program

The **Audio** menu allows you to run a stand-alone audio program. This program can run either fast (*AFST*) or slow (*ASLW*); Fast (*AFST*): When running in “fast” mode every sound impulse will trigger a new step. (*ASLW*): When running in You may run several fixtures together at once to achieve a synchronized light show running to sound in a Master/Slave configuration. To run in a Master/Slave.

Additionally you can choose a basic position for this audio chaser. Use either the internal manual mode or an external DMX controller to set the desired Pan/Tilt position. Confirm this setting in the *SNPT* menu by pressing the **Enter button.**

You can also set the size of the audio chaser in the **SIZE** menu. You have the choice between: NORM (no basic position has to bee chosen), 'BIG', 'MIDL' and 'SMAL').

If you want to run several units in a Master/Slave system be sure designate your first unit in the chain as the master. All others must be "Slave" Master = OFF. **Notice:** The Audio function is only working if **no** DMX is connected.

6.4 Lamp On/Off

This function allows you to manually control the lamp operation. Access the lamp function in the main menu and use the use the **Up** and **Down** buttons to toggle between lamp **On** and lamp **Off.** Press the **Enter** button to confirm the operation or the **Mode** button to cancel and return to the main menu. (The lamp **OFF** command will only functions if and when the shutter is closed at the same time).

6.5 Reset

This function will rest and return all motors to the home position. Access the reset function in the main menu and press the Enter button to engage the reset function (**RST** will readout in the display).

6.6 Running Time (lamp/unit)

This menu function will read out three different fixture running times.

POWR	Fixture running time (non destructible). Total running time logged by the unit.
LA 1	Lamp running time (erasable). Press and hold down the **Up** and **Down** buttons together for three seconds to reset this function.
LA 2	Lamp running time (non destructible). Total lamp hours logged by the unit

6.7 Invert Pan Movement

This function allows you to invert all pan movements. Use the **Up** and **Down** buttons to turn this function **On** and **Off**. Press the **Enter** button to accept the change or the **Mode** button to cancel and return to the main menu.

6.8 Invert Tilt Movement

This function allows you to invert all tilt movements. Use the **Up** and **Down** buttons to turn this function **On** and **Off**. Press the **Enter** button to accept the change or the **Mode** button to cancel and return to the main menu.

6.9 Special Functions

This menu option accesses several special features and function of the **POWER**

SPOT 575IE™. The SPEC sub-menu consists of several sub-menus. Navigation details of the special functions and their sub-menus are as followed:

6.9.1 Manual Drive

This feature allows you to drive all the unit's functions manually for use in an environment that requires a static position (no movements), determining focus points, or testing. Use the **Up** and **Down** buttons to select the function you wish to adjust, then use the **Enter** button to accept your selection. Now adjust the values with the **Up** and **Down** buttons and use the **Enter** button to lock in your value. Use the **Mode** button to cancel at any time.

Function	Value	Remark
PAN	000 - 255	Pan Position
TILT	000 - 255	Tilt Position
COLO	000 - 255	Color wheel
GOB1	000 - 255	Gobo wheel 1
GROT	000 - 255	Gobo rotation
GOB2	000 - 255	Gobo wheel 2
SHUT	000 - 255	Shutter/Strobe functions ~ Lamp will strike at a channel value of 255 if the dimmer channel is at a value of 255 (Open)
DIMR	000 - 255	Dimmer
FOCU	000 - 255	Focus
PRIS	000 - 255	Prism: (000-127)/Stop/Prism rotation
IRIS	000 - 255	Iris
SPEC	000 - 255	Lamp Off, Reset, Laser…,

6.9.2 Lamp On (automatic lamp strike)

This function automatically strikes lamp when main power is turned on. If you would prefer to strike the lamp through a DMX controller you must turn this function off. To toggle between "OFF" and "ON" use the **Up** and **Down** buttons. Use the **Enter** button to confirm your setting.

Please note: **ON** is the default setting for this function.

6.9.3 Lamp Off via DMX

This function allows the lamp to be switched off through a DMX controller. To enable this function use the **Up** and **Down** buttons to toggle between **ON** and **Off**. Turn this function "ON" to allow DMX switching. Use the **Enter** button to accept your selection or the **Mode** button to cancel and return to the menu.

6.9.4 DMX Input

This function will display the DMX value of a channel in the LED as the fixture receives it. Use the **Up** and **Down** buttons to select desired channel and press **Enter** to read its value.

Function	Value	Remark
PAN	000 - 255	Pan Position
TILT	000 - 255	Tilt Position
COLO	000 - 255	Color wheel
GOB1	000 - 255	Gobo wheel 1
GROT	000 - 255	Gobo rotation
GOB2	000 - 255	Gobo wheel 2
SHUT	000 - 255	Shutter/Strobe functions
DIMR	000 - 255	Dimmer functions
FOCU	000 - 255	Focus
PRIS	000 - 255	Prism wheel
IRIS	000 - 255	Iris
SPEC	000 - 255	Lamp off, Reset, Laser
MOVE	000 - 255	Movement
SPED	000 - 255	Pan/Tilt speed

6.9.5 Display

Use this function to choose between different display indications. Use the Up/Down-keys to select desired function and press Enter to confirm or Mode to cancel and return to the menu.

D ON	Display On/Off (If you've chosen off, the display will go out within 15 seconds after the last input. The next key touch will reactivate the display).
REV	Rotates the display by a 180˚ - This may also be accomplished by pressing both the “UP” and “DOWN” buttons at the same time.

6.9.6 Fixture Temperature

This function allows you to read out the actual fixture operating temperature. Press the **Enter** button to select this function or the **Mode** to button to cancel and return to the main menu. Normal operating temperature should range between 85˚C and 95˚C. Operating temperatures between 96˚C and 104˚C are considered critical. Temperatures above 105°C will send the fixture into protect mode and automatically switch the lamp off, the lamp will remain off until internal temperature drops below 95˚C. Outside surface temperature should not exceed 45˚C.

6.9.7 Fan Control

By using this function you can choose between 4 types of fan speed operations. Use the **Up** and **Down** buttons to select the desired fan setting, then press **Enter** to accept your setting or press the **Mode** button to cancel and return to the menu. The chart below will detail the different fan settings:

HIGH	The cooling fan works continuously at max. speed.
REG	This is the default fan setting. In this setting an internal thermal sensor constantly monitors the internal operating temperature and regulates the fan speed to coincide with the internal temperature.
LOOF	This function is designed for environments that require low ambient noise. In this setting the fan will operate at the lowest

	speed. When the maximum internal intolerable operating temperature is reached the lamp will automatically shut off.
LOHI	In this setting the fan will operate at the lowest speed. When the maximum internal intolerable operating temperature is reached the fan will automatically switch from low to high speed.

6.9.8 Adjustments and Calibrations

With this function you can adjust and calibrate the positions of the different wheels and other motors. This feature is reserved for a service technician and is sometimes required after a service or repair work.

This function requires a service code only available to authorized service technicians.

Use the **Up** and **Down** buttons to select the function that requires calibration and press the **Enter** button to confirm the adjustment or the **Mode** button to cancel and return to the menu. Use the **Up** and **Down** buttons to set the adjustment values and confirm once more with the **Enter** button or use the Mode button to cancel the operation.

Function	Value	Remark
ADJU	**CODE xxxx**	Adjustments in the internal setup are code protected (for authorized persons only).
COLO	**-99 - +99**	Adjustment of the Color wheel
GOB1	**-99 - +99**	Adjustment of the Gobo wheel 1
GOB2	**-99 - +99**	Adjustment of the Gobo wheel 2
SHTR	**-99 - +99**	Adjustment of the Shutter
PRIS	**-99 - +99**	Adjustment of the Prism wheel
IRIS	**-99 - +99**	Adjustment of the Iris
POFS	**-99 - +99**	Adjustment of the Pan-Offsets
TOFS	**-99 - +99**	Adjustment of the Tilt-Offsets
CLRE	Adjustments in the internal circuit.	
ARES	**-99 - +99**	Adjust Reset (wheels stand still after the reset)
VTIL	**-99 - +99**	Software version of Tilt-board
VTR1	**-99 - +99**	Software version of Head- board
VTR2	**-99 - +99**	Software version of Base- board

6.9.9 Default Settings

This function is used to restore all the factory default settings and presets. Press the **Enter** button to confirm this operation or the **Mode** button to cancel and return to the menu. When this operation is selected the LED will briefly readout **ok**, then return to the previous function. The chart below details the factory defaults.

Function	Display	Default Settings			
DMX Address	D001	D001			
Pan reverse	RPAN	ON		OFF ✓	
Tilt reverse	RTLT	ON		OFF ✓	
Automatic lamp on	LAAU	ON		OFF ✓	
Lamp on via DMX	DLOF	ON ✓		OFF	
Display	DISP	D ON ✓			
Cooling fan	FANS	HIGH	REG ✓	LOOF	LOHI
Feedback	FEED	ON ✓		OFF	

6.9.10 Feedback *"APC"*

The POWER SPOT 575IE™ is equipped with *"APC,"* automatic position correction. This function automatically corrects the Pan and Tilt movement should the unit lose step or is obstructed and forced to lose step. Press the **Enter** button to access the sub-menu. Use the **Up** and **Down** buttons to toggle between "ON" and "OFF" and confirm once more with the **Enter** button or use the **Mode** button to cancel the operation.

6.9.11 Error and Fault Corrections

(These functions are reserved for authorized technicians only)

6.10 Display Error and Information Messages

HEAT	This message appears if you try to switch on the lamp within 5 minutes

	after having switched off (lamp too hot). The message will appear on the display if the lamp doesn't ignite within 20 seconds. The fixture will store this command and automatically ignite the lamp after 5 minutes.
IG E	When igniting the lamp, the electronic ballast will examine whether the lamp ignited or not. If the lamp does not ignite within 20 seconds, the igniting sequence is terminated. The fixture will wait approximately 2 minutes and attempt the lamp ignition process once again. After the 3rd unsuccessful ignition attempt the sequence is completely stopped and the display reads "**IG E**" (Ignition error).
LAER	After the ignition of the lamp was two times not successful the display will show LAER. That means the lamp could be damaged or even missed, the fixture is overheating or there could be a failure on the igniter or ballast. Switch off the power supply and solve the possible problem.
After the error "IG E" respectively "LAER" it is not anymore possible the start the lamp via Shutter = 255. Nevertheless if a renewed ignition attempt is desired, first run a Reset (at the Spot or over DMX). Afterwards you can try again to ignite the lamp.	
OTMP	This error message informs you that the fixture was overheating and lamp has electronically been switched off to allow the fixture to cool to normal operating temperatures. Please look for any possible reason that may have caused the fixture to overheat. i.e., faulty fans, air vents blocked or dirty, lamp broken or very old, too high ambient temperature. Switch off the power supply and solve the possible problem.
RSER	This message informs you that one of the fixture function wasn't able to do its reset correct (magnetic sensor, stepping motor, driver on the PCB, cables, etc.). Repair the defect and start the fixture again.

7. OPERATION

***Operating Modes**: The Power Spot 575IE™ can operate in three different modes. This next section will detail the differences in the operating modes.*

• ***Stand alone mode -*** The fixture will react to sound, chasing through the built-in programs.

• ***Master/Slave mode -*** You can daisy chain up to 16 fixtures together to get a synchronized light show without the need of an external controller. The fixtures will react to sound chasing to synchronized light show.

• ***DMX control mode -*** This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer 2.

Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® DMX Operator II™ or Elation® Show Designer 2™ to control head movement, the color wheel, the shutter (strobe), and all other DMX traits. A DMX controller allows you to create unique programs tailored to your individual needs. The Power Spot 575IE II™ uses 16 DMX channels. See page 27 for detailed description of the DMX traits.To control your fixture in DMX mode, follow the set-up procedures on pages 13-15 as well as the set-up specifications that are included with your DMX controller. Use the controller's faders to control the various DMX fixture traits.This will allow you to create your own programs.

- Follow the instruction on page 18 to set the DMX address.
- For longer cable runs (more than a 100 feet) be sure to use a terminator on the last fixture.
- For help operating in DMX mode consult the manual included with your DMX controller.

Stand-Alone Operation (Sound Active): This mode allows a single fixture to run to the beat of the music. Only use this mode when running a single fixture, or when running several fixtures as individuals.Mount your fixture in a secure and stable manner.

- Access the main menu and select the AUDI function, this will give you access to the audio submenu. See page 16 for the menu breakdown.In the audio submenu choose the audio chase speed, fast or slow. Slow (ASLW) will trigger the chase sequence to every two beats, while fast (AFST) will trigger the chase impulse every beat. See page 16 for more details.

- Be sure the Master (MSTR) function is switched “ON,“ and the SVPT function is switched “OFF.“
- Choose your room size. The size function allows you to choose a the approximate size of the room (NORM, BIG, MIDL, SMAL). The built-in programs will automatically adjust to your slection to optimize light output for your room.
- Use the sound sensitivity knob on the side control panel to make the unit more or less sensative to sound. Turning the knob in clockwise direction will make the unit more sensetive to sound, while turning the knob counter-clockwise will make the unit less sensetive to sound. Note: This unit will react to the low frequiencies of a sound source, tapping on the fixture or high pitched sound may not trigger the fixture.

Master-Slave Operation (Sound Active): This function will allow you to link up to 16 fixtures together and operate without a controller. The fixtures will be sound activated. In Master-Slave operation one fixture will act as the controlling fixture and the others will react to the controlling fixtures programs. Any fixture can act as a Master or as a Slave.

- Using standard XLR microphone cables, daisy chain your fixtures together via the XLR connector on the rear of the fixtures. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first fixture in the chain (master) will use the female XLR connector only - The last fixture in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
- Follow the same procedures listed in the previous Stand-Alone section. With two exceptions; Be sure the first unit in the chain is selected as the “master“ (MSTR) is turned on in the audio submenu. All other fixtures must be in “slave“ mode (SVPT) turned on in the audio submenu.

8. DMX CHANNEL SELECTION (DMX PROTOCOL)

Power Spot 575IE DMX Channel Selection

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 530°	min. 2,65 s	0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,1° (16 Bit)		0..255	00..FF	0..100
3) Tilt-coarse	0 .. 285°	min. 1,8 s	0..255	00..FF	0..100
4) Tilt-fine	High- Pos ... High- Pos + 1,1° (16 Bit)		0..255	00..FF	0..100
5) Color	open (fast)	Chaser from color to color max. 140 BPM => 0,43 s	0..1	00..01	0,2
	open / color 1 (fast)		2..3	02..03	1,0
	color 1, Brilliant Blue (fast)		4..5	04..05	1,8
	color 1 / color 2 (fast)		6..7	06..07	2,5
	color 2, Blue (fast)		8..9	08..09	3,3
	color 2 / color 3 (fast)		10..11	0A..0B	4,1
	color 3, Blue Purple (fast)		12..13	0C..0D	4,9
	color 3 / color 4 (fast)		14..15	0E..0F	5,7
	color 4, Magenta (fast)		16..17	10..11	6,5
	color 4 / color 5 (fast)		18..19	12..13	7,3
	color 5, Pink (fast)		20..21	14..15	8,0
	color 5 / color 6 (fast)		22..23	16..17	8,8
	color 6, Orange (fast)		24..25	18..19	9,6
	color 6 / color 7 (fast)		26..27	1A..1B	10,4
	color 7, Canary (fast)		28..29	1C..1D	11,2
	color 7 / color 8 (fast)		30..31	1E..1F	12,0
	color 8, Italian Blue (fast)		32..33	20..21	12,7
	color 8 / color 9 (fast)		34..35	22..23	13,5
	color 9, Turquoise (fast)		36..37	24..25	14,3
	color 9 / color 10 (fast)		38..39	26..27	15,1
	color 10, Jade (fast)		40..41	28..29	15,9
	color 10 / color 11 (fast)		42..43	2A..2B	16,7
	color 11, Red (fast)		44..45	2C..2D	17,5
	color 11 / open (fast)		46..47	2E..2F	18,2
	open (fast)		48..63	30..3F	19,0
	open (slow)	Chaser from color to color max. 70 BPM => 0,86 s	64..65	40..41	25,3
	open / color 1 (slow)		66..67	42..43	26,1
	color 1, Brilliant Blue (slow)		68..69	44..45	26,9
	color 1 / color 2 (slow)		70..71	46..47	27,6
	color 2, Blue (slow)		72..73	48..49	28,4
	color 2 / color 3 (slow)		74..75	4A..4B	29,2
	color 3, Blue Purple (slow)		76..77	4C..4D	30,0
	color 3 / color 4 (slow)		78..79	4E..4F	30,8
	color 4, Magenta (slow)		80..81	50..51	31,6

Channel	Function	Time and Value	DMX	HEX	%
	color 4 / color 5 (slow)		82..83	52..53	32,4
	color 5, Pink (slow)		84..85	54..55	33,1
	color 5 / color 6 (slow)		86..87	56..57	33,9
	color 6, Orange (slow)		88..89	58..59	34,7
	color 6 / color 7 (slow)		90..91	5A..5B	35,5
	color 7, Canary (slow)		92..93	5C..5D	36,3
	color 7 / color 8 (slow)		94..95	5E..5F	37,1
	color 8, Italian Blue (slow)		96..97	60..61	37,8
	color 8 / color 9 (slow)		98..99	62..63	38,6
	color 9, Turquoise (slow)		100..101	64..65	39,4
	color 9 / color 10 (slow)		102..103	66..67	40,2
	color 10, Jade (slow)		104..105	68..69	41,0
	color 10 / color 11 (slow)		106..107	6A..6B	41,8
	color 11, Red (slow)		108..109	6C..6D	42,5
	color 11 / open (slow)		110..111	6E..6F	43,3
	open (slow)		112.127	70..7F	44,1
	color rotation STOP		128..129	80..81	50
	color rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	color rotation, fast-slow, CCW	max. 2,9 turns/sec.	192..253	C0..FD	76..98
	Audio color chaser slow	each 4th sound impulse → new color	254	FE	99
	Audio color chaser fast	each sound impulse → new color	255	FF	100
6) Gobo 1	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..7	0..7	0..2,9
	Gobo 2 (fast)		8..15	8..F	3..5,9
	Gobo 3 (fast)		16..23	10..17	6..8,9
	Gobo 4 (fast)		24..31	18..1F	9..11,9
	Gobo 5 (fast)		32..39	20..27	12..14,9
	Gobo 6 (fast)		40..47	28..2F	15..17,9
	Gobo 7 (fast)		48..55	30..37	18..20,9
	Gobo 8 (fast)		56..63	38..3F	21..23
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	64..71	40..47	24..26,9
	Gobo 2 (slow)		72..79	48..4F	27..29,9
	Gobo 3 (slow)		80..87	50..57	30..33,9
	Gobo 4 (slow)		88..95	58..5F	34..36,9
	Gobo 5 (slow)		96..103	60..67	37..39,9
	Gobo 6 (slow)		104..111	68..6F	40..42,9
	Gobo 7 (slow)		112..119	70..77	43..45,9
	Gobo 8 (slow)		120..127	78..7F	46..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75

Channel	Function	Time and Value	DMX	HEX	%
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
7) Gobo 1 Posi./Rot	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192..253	C0..FD	76..100
	Audio gobo rotation, slow	each 4th sound impulse → new position	254	FE	99
8) Gobo 2	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..3	0..3	0..1
	Gobo 2 (fast)		4..7	4..7	2..2,9
	Gobo 3 (fast)		8..11	8..B	3..4
	Gobo 4 (fast)		12..15	C..F	5..5,9
	Gobo 5 (fast)		16..19	10..13	6..7
	Gobo 6 (fast)		20..23	14..17	8..8,9
	Gobo 7 (fast)		24..27	18..1B	9..10,9
	Gobo 8 (fast)		28..31	1C..1F	11..12
	Gobo 9 (fast)		32..35	20..23	13..13,9
	Gobo 10 (fast)		36..63	24..3F	14..24,9
	Gobo 1 (open, fast)		64..65	40..41	25..25,9
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	66..67	42..43	26..26,9
	Gobo 2 (slow)		68..71	44..47	27..27,9
	Gobo 3 (slow)		72..75	48..4B	28..29
	Gobo 4 (slow)		76..79	4C..4F	30..30,9
	Gobo 5 (slow)		80..83	50..53	31..32
	Gobo 6 (slow)		84..87	54..57	33..34
	Gobo 7 (slow)		88..91	58..5B	35..35,9
	Gobo 8 (slow)		92..95	5C..5F	36..37
	Gobo 9 (slow)		96..99	60..63	38..38,9
	Gobo 10 (slow)		100..127	64..7F	39..50
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
	Audio gobo rotation, fast	each sound impulse → new position	255	FF	100
9) Shutter	Shutter closed		0..15	00..0F	0..6
	Random Strobe (different pattern)		16..31	10..1F	7..11,9
	Strobe Pulse effect , slow - fast	min. frequent 0,7 Hz	32..47	20..2F	12..12,

Channel	Function	Time and Value	DMX	HEX	%
					9
	Strobe effect , slow - fast	max. frequent 10 Hz	48..239	30..EF	13..93
	Shutter open (lamp start)		240..255	F0..FF	94..100
10) Dimmer	Dimmer closed (0%)		0..3	0..3	0..1
	Dimmer 1%...99%	movement time 0,3 sec.	4..251	4..FB	2..98
	Dimmer open (100%)		252..255	FC..FF	99..100
11) Focus	In - out	full distance 1,5 sec.	0..255	0..FF	0..100
12) Prism	Prism swing out		0..5	00..05	0..2
	Prism position 0 ... 540°		6..127	06..7F	0..49
	Prism rotation stop		128..129	80..81	50
	Prism rotation, slow-fast, CW	min. 1,6 turns/h	130..191	80..BF	51..75
	Prism rotation, fast-slow, CCW	max. 4,4 turns/sec.	192..253	C0..FD	76..100
	Audio prism rotation, slow	each 4th sound impulse → new prism	254	FE	99
	Audio prism rotation, fast	each sound impulse → new prism	255	FF	100
13) Iris	Iris open – closed		0..127	00..7F	0..50
	Ascend with Shutter, random		128..143	80..8F	51..56
	Descend with Shutter, random		144..159	90..9F	57..62
	Ascend with Shutter, audio		160..175	A0..AF	63..68
	Descend with Shutter, audio		176..191	B0..BF	69..75
	Ascend with Shutter		192..207	C0..CF	76..81
	Descend with Shutter		208..223	D0..DF	82..87
	Pulse - effect		224..239	E0..EF	88..93
	Ascend - descend effect		240..253	F0..FD	94..99
	Iris open		254..255	FE..FF	100
14) Special	No function		0..15	00..0F	0..6
	Gobo-shake +/- 10° slow – fast	3,5 moves / min. up to 60 moves / max.	16..31	10..1F	7..12
	Gobo-shake +/- 20° slow – fast	3,5 moves / min. up to 60 moves / max.	32..47	20..2F	13..18
	Gobo-shake +/- 30° slow – fast	3,5 moves / min. up to 60 moves / max.	48..63	30..3F	19..24
	Color-chaser C / C+1 slow – fast	0,7 BPS ... 2,3 BPS => 1,43 s ... 0,43 s	64..79	40..4F	25..31
	Color-chaser C / C+2 slow – fast	0,7 BPS ... 2,0 BPS => 1,43 s ... 0,5 s	80..95	50..5F	32..37
	Audio Pan / Tilt slow	each 4th sound impulse → new position	96..111	60..6F	38..43
	Audio Pan / Tilt fast	each sound impulse → new position	112..127	70..7F	44..50
	Laser flashing, random		128..143	80..8F	51..56
	Laser, audio		144..159	90..9F	57..62
	Laser blinking, slow - fast		160..175	A0..AF	63..68
	Laser flashing, slow - fast		176..191	B0..BF	69..74
	Laser ON		192..207	C0..C	75..81

Channel	Function			Time and Value	DMX	HEX	%
						F	
	No function				208..223	D0..DF	82..87
	Fan on min. as long as temp. < 90°C				224..229	E0..E5	88..90
	Lamp OFF (min. 3 sec.)				230..249	E6..F9	92..97
	Reset				250..255	FA..FF	98..100
15) Movement	no movement				0	00	0
	Movement	**Size**	**Phase**				
	PAN	1	0°		01..01	01..01	0,5
		1	90°		02..03	02..03	1,0
		1	180°		04..05	04..05	1,7
		1	270°		06..07	06..07	2,5
	PAN	2	0°		08..09	08..09	3,3
		2	90°		10..11	0A..0B	4,1
		2	180°		12..13	0C..0D	4,9
		2	270°		14..15	0E..0F	5,7
	PAN	3	0°		16..17	11..11	6,5
		3	90°		18..19	12..13	7,3
		3	180°		20..21	14..15	8,0
		3	270°		22..23	16..17	8,8
	PAN	4	0°		24..25	18..19	9,6
		4	90°		26..27	1A..1B	10,4
		4	180°		28..29	1C..1D	11,2
		4	270°		30..31	1E..1F	12
	TILT		size / phase see also PAN		32..63	20..3F	13..25
	PAN / TILT		size / phase see also PAN		64..95	40..5F	26..37
	PAN / TILT (inverse)		size / phase see also PAN		96..127	60..7F	38..50
	Circle		size / phase see also PAN		128..159	80..9F	51..62
	Circle (inverse)		size / phase see also PAN		160..191	A0..BF	63..75
	lying eight		size / phase see also PAN		192..223	C0..DF	76..87
	random movement		size see also PAN		224..255	E0..FF	88..100
16) Speed Pan/Tilt	Pan/Tilt relative movement				0..15	00..0F	0..6
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).			Pan min. 530° = 200 s Pan max. 530° = 2,65 s Tilt min. 285° = 110 s Tilt max. 285° = 1,8 s	16..255	10..FF	7..100

Lamp ON	Shutter open		240..255	F0..FF	94..100
Lamp OFF	Channel 14 (min. 3 sec.) (only if shutter is closed, channel 9 = 0 ..15)		230..249	6E..9F	92..97

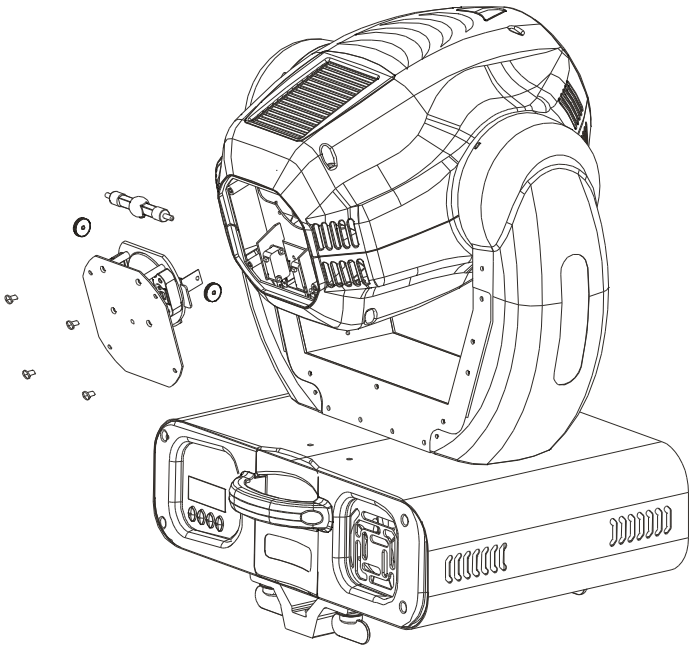
9. LAMP REPLACEMENT

For a proper and safe lamp change, please read this chapter carefully and follow all instructions.

9.1 Safety Regulations

- Pull out the main plug!
- Wait min. 20 minutes after the last operation to cool down the fixture.
- Don't touch the bulb of the lamp with bare fingers (this can cause damages.
- Before you put the POWER SPOT 575IE™ into operation close the casing, otherwise your retina can be hurt!

9.2 Lamp Change



Be sure the unit is disconnected from it's main power supply.

Always allow ample time for the unit to properly cool before attempting any type of service or repair..

To expose the lamp, remove the four Philips screws that secure the lamp socket assembly

to head. Carefully pull back the socket assembly.

Gently remove the old lamp from it's socket. If the old lamp has exploded be sure to remove all of the old lamp fragments to prevent damage to the internal components.

Replace the lamp with an approved replacement type. Be sure to follow all the lamp handleing procedures included with your new lamp. Never handle the new lamp with your bare hands, the oils from your skin may damage the lamp. Always replace with the lamp with a lamp that meets the orginal lamp specification, failure to do so may damage the unit and will void your manufactures warranty.

Before reassembing the unit, be sure the new lamp is securely seated in lamp socket.

Reassemple the unit in reverse order.

Besure to reset the lamp running time in the "TIME" menu. The lamp run time is designed to function as lamp replacement reminder (see page 20).

Attention:

Be sure the lamp is securely seated in the lamp socket. Failure to comply with this warning may cause excessive heat build-up that may cause the internal lens to crack.

10. FUSE REPLACEMENT

***Caution**: Always replace with the exact same type fuse, unless otherwise specified by an authorized Elation® service technician. Replacing with anything other than the specified part can damage your unit and will void your manufactures warranty.*

***Warning**: If you continue to blow fuses, STOP using the fixture. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.*

Fuse Replacement: Locate and remove the unit's power cord from the main power supply. Once the cord has been removed located the fuse holders located on the side panel near the power input connection. Using a flat-head screwdriver unlock the fuse holder from its' housing by turning the holder in a counter-clockwise direction. Once the fuse holder has been unlocked, pull back on the fuse holder holder to expose the fuse. Gently pull out the bad fuse and discard of it properly and replace it with an exact match. Reassemble in reverse order.

11. CHANGING/REPLACING GOBOS

The POWER SPOT 575IE II™ is fitted with a standard size gobo wheel that accepts gobos with an outside diameter of 26.9mm and a viewable image size of 23mm. Glass or steel gobos may be used. Please follow the safety procedures and installation below for proper and pain gobo exchange. ***Please refer to the specification section at the end of this manual for exact gobo specifications!***

Safety Regulations

- Always disconnect the main power supply!
- If the unit was recently in operation, be sure to allow the unit a minimum of 20 minutes to cool before opening the unit.
- To avoid eye injury and reduce exposure to UV radiation always be sure to replace the protective outside casing before attempting operation.

1.1 *Installing/Replacing Gobos*

1.1.1 Always be sure to disconnect the main power supply before attempting any service.

1.1.2 Remove the upper shell of the protective cover by removing the 4 retaining Phillips screws, 2 located on the front and 2 located on the rear of the head.

1.1.3 Once the outer cover has been removed;

a) Fixed Gobo Wheel; Rotate the gobo wheel to a position that allows easy access to the gobo you want to replace. Using a small flat-head screwdriver, gently pry out the gobo retaining spring.

b) Rotating Gobo Wheel; The rotaing gobo wheel uses a unique quck-change system. To remove a gobo, genetly pull up on the gobo holder and pull out. Refer to the illustration on the next page.

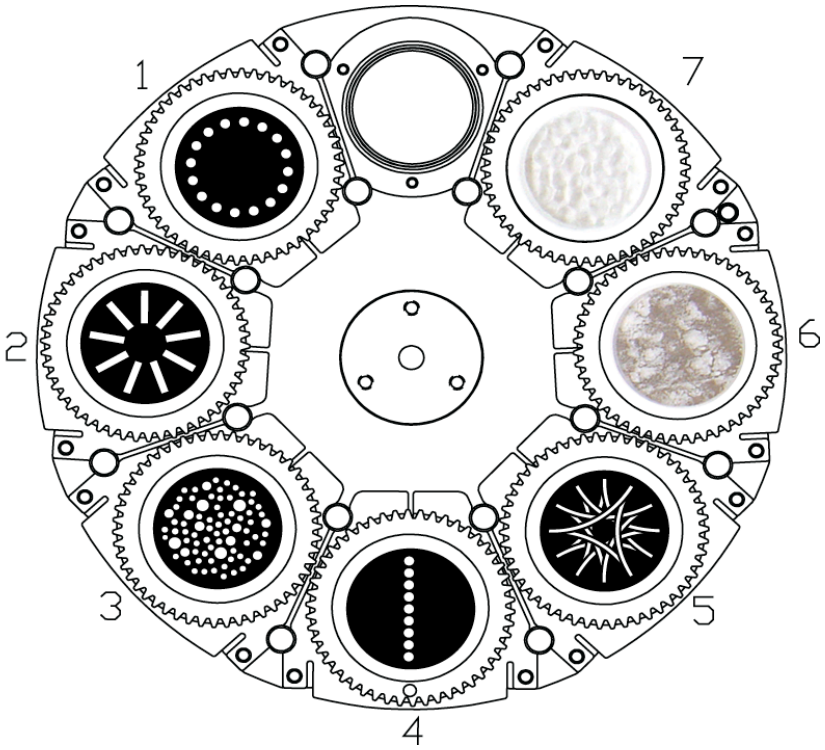
1.1.4 Replace the gobo and reinsert the retaining spring to secure the new gobo in place. Be sure the retaining spring is insert properly to avoid damage to the wheel.

1.1.5 **Reassemble the POWER SPOT 575IE II™ in reverse order.**

Special Notice:

If you use glass gobos, the non-vaporized side must be fitted towards the lamp direction.

1: 25-022-0218
2: 25-022-0367
3: 25-022-0170
4: 25-022-0213
5: 25-022-0240
6: 25-022-0241
7: 25-022-0248



12. Maintenance and Cleaning

It is absolutely essential that the fixture is kept clean and dust, dirt and smoke-fluid residues do not built-up on the surface or within the fixture. Residue build-up may cause the fixture's light output to be significantly reduced. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to function reliable throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

The inside optical system should be maintained only by qualified technicians. Please contact Elation professionals for recommendation associated with internal cleaning procedures.

Safety Considerations

- **Always disconnect main power before attempting any service related issues!**
- Allow ample time for the lamp to cool (at least 20 minutes) before performing any cleaning procedures.
- Never attempt operation with any of the protective covers removed!

Cleaning Frequency (rule-of-thumb)

The residue build up will very depending on location, therefore only general guidelines are given. Below is a suggested cleaning interval more or less cleaning frequency may be necessary depending on your particular installation and duty cycles

Position	Interval	In this way
Outside optic	Weekly	Soft cloth and glass cleaner
Color filter	Monthly	Soft cloth and glass cleaner
Gobos	Yearly	Vacuum cleaner, airbrush, etc.
Glass gobos	Monthly	Soft cloth and glass cleaner
Prism	Monthly	Soft cloth and glass cleaner
Dimmer/Shutter	Yearly	Vacuum cleaner, airbrush, etc.
Inside lens	Monthly	Soft cloth no glass cleaner
Fan and air channel	Monthly	Vacuum cleaner, airbrush, etc.
Reflector	Never	
Lamp	Never	
Moveable parts	Yearly	Suitable Lubricant

The above chart is a recommended cleaning schedule only. Cleaning frequency depends on the environment in which the fixture operates (I.E. smoke, fog residue, dust, dew). In clubs that observe heavier use, we recommend cleaning on a more frequent basis. Periodic cleaning will ensure fixture longevity and crisp lamp output.

Attention:

1. **Never allow optical parts to come in contact with oil, dirt, or grime.**
2. **Allow all parts to dry completely before attempt operation.**
3. **Never clean the aspheric lens with water or other cleaners. The lens should be changed at the first sign of ware, usually in about 1 – 2 years (lens will begin to look cloudy). For lens replacement please contact Elation technical support.**

Cleaning the Optical System (recommended for qualified service technicians only)

Always disconnect main power before attempting any service related issues!

Allow ample time for the lamp to cool (at least 20 minutes) before performing any cleaning procedures.

Open and remove the upper half of the projector by loosening the 4 retaining Phillips screws. Two located on the front and 2 located on the rear of the head.

Follow the chart above to complete the service procedures.

Replace the shell and tighten the 4 retaining screws.

Be sure the cover has been replaced and all the parts have completely dried before attempting operation.

13. TECHNICAL SPECIFICATION

Power supply	
Power consumption	90~260V, 50~60 Hz 780 Watt, 3.8A, electronic ballast, (blind current compensated)
Fuse protection	Lamp: 8A/250V, GMA (5x20mm fine-wire fuse) Electronic: 1A/250V, GMA (5x20mm fine-wire fuse)
Lamp	
Type	HTI 575-DE (OSRAM)
Live time	500h (750h)
Color temperature	5600k or 7500k
luminous flux	43.000 lm
Optical system	
Parabolic reflector	
Doubles condenser lens	
15° standard objective (optional 15° or 18°)	
Lens anti-reflex	
Color	
11 dichroic filter plus white, 12 half-colors	
Gobos	
Gobo-wheel 1: 7 exchangeable rotating gobos plus "open", 4 glass Gobos	
Gobo-wheel 2: 9 fixed exchangeable standard gobos plus "open"	
Gobo outside diameter 27 mm, image size 23 mm	
All gobos as steel or glass Gobos exchangeable, 9 spare Gobos	
Gobo thickness: glass = 1.1 mm, steel = 0.15 mm	
Shutter / Strobe / Dimmer	
Strobe- effect with variable speed 1 - 10 flashes per second	
Continuously mechanical dimmer 0 - 100%	
Prism	
Rotating 3-face prism, rotating and variable in speed	
Focus	
Motor driven focus from near to far away	
Drive	
Standard DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. The DMX- addressing starts at the DMX- address [001].	
Pan / Tilt	
Pan- movement	**530° in max. 2,65 seconds, 16 bit resolution**
Tilt- movement	**280° in max. 1,68 seconds, 16 bit resolution**
Weights and measures	
Dimensions	**375mm (W) x 430mm (L) x 450mm (H) ~ Head vertical**
Weight (net)	**19kg / 42Lbs**

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

14. 2 YEAR (730 DAYS) LIMITED WARRANTY

A. Elation Professionals® hereby warrants, to the original purchaser, Elation Professionals® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professionals® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professionals® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professionals® shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professionals® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professionals® factory unless prior written authorization was issued to purchaser by Elation Professionals®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professionals® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professionals® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professionals®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professionals® reserves the right to make changes in design and/or

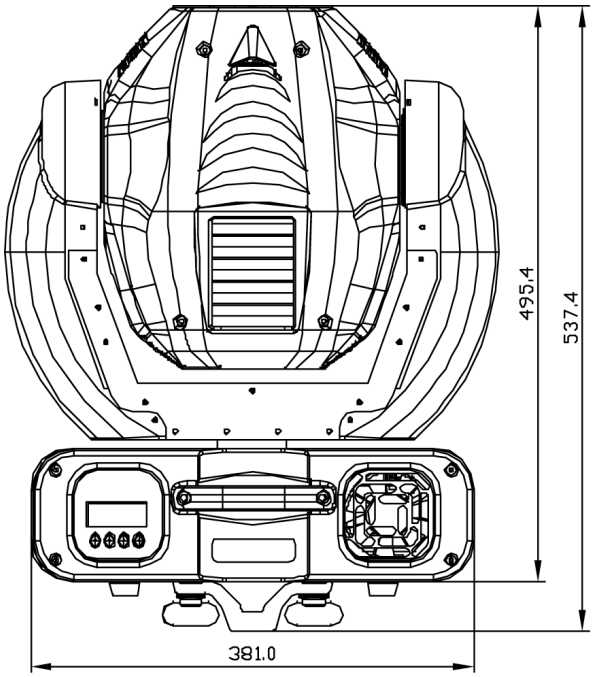
improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

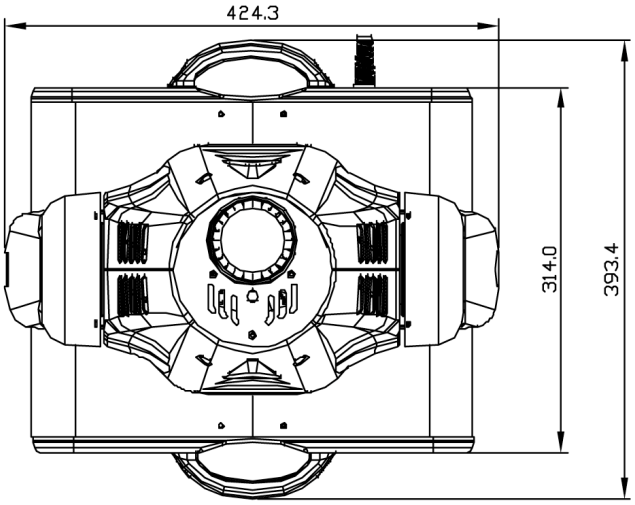
F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professionals® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professionals® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professionals® products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

H. Lamps are not covered under this or any other warranty either written or implied.

15. DIMENSIONS





Laser Warning Labels: When installing this fixture be sure that it is mounted in a manner that prevents the audience from directly into the laser beam. Be sure the fixture is mounted in manner that prevents the laser beam from sticking the audience.

AVOID EXPOSURE
Laser light is emitted from this aperture
"DANGER -Laser radiation when open. AVOID DIRECT EYE EXPOSURE." For Class IIIa accessible laser radiation with an irradiance greater than 25 x 10-3 Wcm-2
DANGER
VISIBLE LASER RADIATION
-AVOID DIRECT EYE EXPOSURE
LASER DIODE
WAVELENGTH : 635-650 nm
MAX. OUTPUT : < 5 mW
CLASS IIIa LASER PRODUCT
This Laser product complies with the CDRH/BRH radiation performance standards.21 CFR Subchapter J.

Elation Professional
4295 Charter Street
Los Angeles, CA. 90058
323-582-3322 / 323-582-3108 fax

www.ElationLighting.com / info@ElationLighitng.com